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OFFICIAL

ATTY DOCKET: T8466399US

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re Application of:	;	Examiner: Phillip A. Johnson
MICHAEL SASGES) :	Group Art Unit 2881
Application No.: 09/846,682) :	
Filed: May 2, 2001) :	
For: OPTICAL SENSING AND CONTROL OF ULTRAVIOLET)	
FLUID TREATMENT DYNAMICS)	,

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION OF INVENTOR UNDER 37 C.F.R. §1.131

- l, Michael Sasges, having a post office address at 1711 Mortimer St., Victoria BC Canada V8P 3A9, hereby declare and say as follows:
- 1. I am the sole inventor of the subject matter disclosed and claimed in independent Claims 1, 7 and 15 of the above-identified United States patent application. In preparing this Declaration, I have reviewed the following documents:
 - the above-identified United States patent application
 - the Official Action dated March 12, 2003;
 - United States patent 6,057,917 [Petersen et al. (Petersen)] and
 - the Response being submitted concurrently herewith.

- 2. I conceived the subject matter of at least independent Claims 1, 7 and 15 prior to the February 26, 1999 priority date of Petersen. Furthermore, I acted to diligently reduce to practice the subject matter of the invention recited in independent Claims 1, 7 and 15, from the conception thereof up to at least February 26, 1999, in NAFTA member country Canada. Moreover, from a date prior to February 26, 1999, I diligently continued to work to refine the subject matter of the invention recited in independent Claims 1, 7 and 15, and I aver that a constructive reduction to practice of that subject matter occurred at least as of the filing of United States Patent Application No. 09/846,682 on May 2, 2001.
 - 3. Enclosed as Exhibit 1 is a copy of an excerpt from my laboratory notebook illustrating a sensor having a silicon carbide (SiC) photodiode. Also enclosed as Exhibits 2 and 3 are copies of trawings illustrating the major components (sensor preassembly in Exhibit 2 and port probe in Exhibit 3) of a sensor assembly for use in an ultraviolet light fluid sterilizing apparatus sold by Trojan Technologies Inc. under the tradename System UV8000TM (see title block of the drawings in Exhibits 2 and 3). Also enclosed herewith as Exhibit 4 is an internal presentation extolling the use of a silicon carbide photodiode in place of an "existing photodiode" in a radiation sensor. Also enclosed herewith as Exhibit 5 is a brochime (© 1998) illustrating the ultraviolet light fluid sterilizing apparatus sold by Trojan Technologies Inc. under the tradename System UV8000TM page 5 of Exhibit 5 describes sensor (incorporating the "existing photodiode") used to mornitor ultraviolet radiation intensity.
 - 4. I aver that, prior to February 26, 1999, I conceived of using a silicon carbide photodiode (Exhibits 1 and 4) in a sensor assembly (Exhibits 2 and 3) for an ultraviolet light fluid sterilizing apparatus such as the one sold by Trojan Technologies Inc. under the tradename System UV8000TM (Exhibit 5). I aver that each document of Exhibits 1-

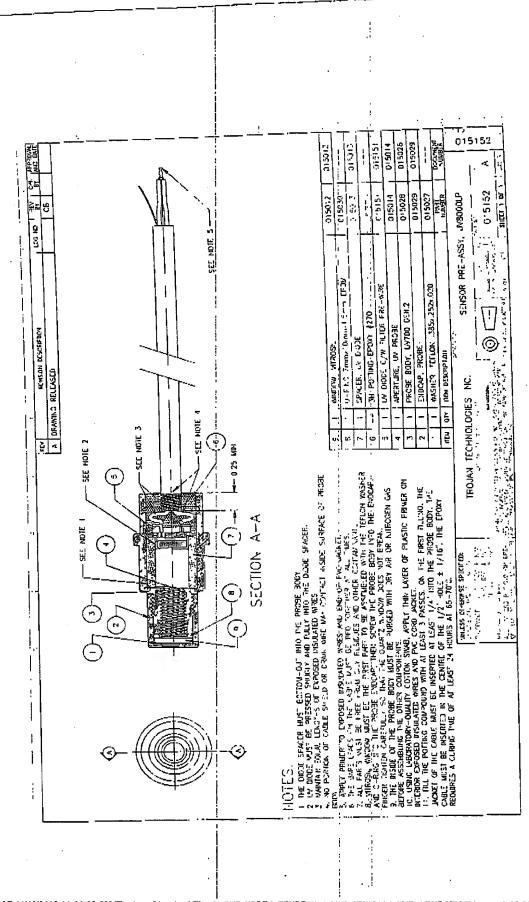
5 was created prior to February 26, 1999 and that I personally created the documents of Exhibits 1 and 4 prior to February 26, 1999. I aver that the documents of Exhibits 1-5 also provide evidence that the invention was being diligently reduced to practice from the conception thereof up to at least February 26, 1999.

- 5. Enclosed as Exhibit 6 is a copy of experimental data showing continued development of the invention recited in independent Claims 1, 7 and 15. This data was generated from field experiments which evidence that, during the period from a date prior to February 26, 1999 up until the filing of United States Patent Application No. 09/846,682 on May 2, 2001, I (and others under my direction at Trojan Technologies Inc.) diligently continued to work to refine the subject matter of the invention recited in Claims 1, 7 and 15. I aver that a constructive reduction to practice of that subject matter occurred at least as of May 2, 2001.
 - 6. The combination of Exhibits 1-5 show an invention directed to an ultraviolet light fluid sterilizing apparatus including: at least one ultraviolet light source configured to irradiate a fluid with ultraviolet light to sterilize the fluid; an ultraviolet light sensitive silicon carbide photodiode, said photodiode capable of generating a signal proportional to the intensity of ultraviolet light detected by said photodiode; and a sealed outer housing comprising an optically transparent window, said silicon carbide photodiode located inside said housing and adjacent said transparent window (see Claim 1).
 - 7. The combination of Exhibits 1-5 show an invention directed to ultraviolet light fluid sterilization apparatus including: a fluid chamber; at least one ultraviolet light source configured to emit ultraviolet light into said fluid chamber; and at least one ultraviolet light sensor comprising a silicon carbide photodiode (see Claim 7).

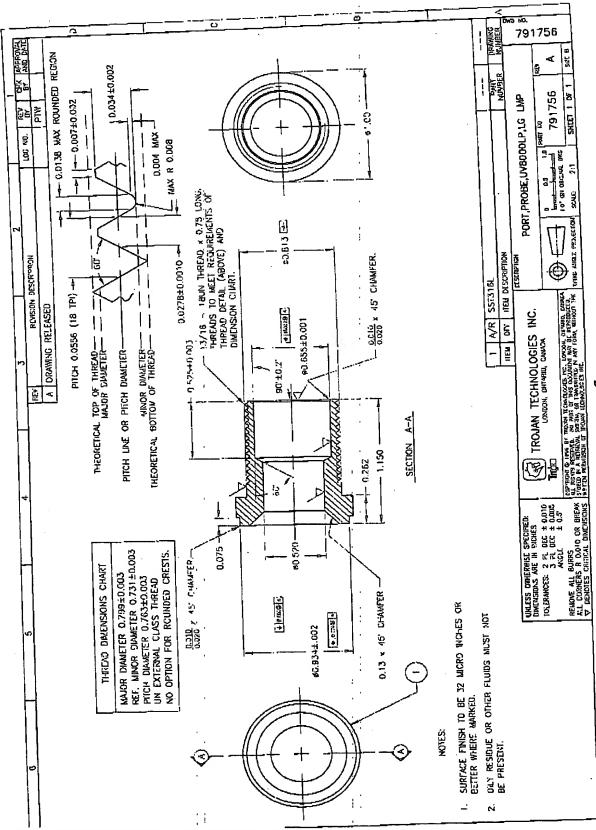
- method of sterilizing a fluid utilizing an ultraviolet light fluid sterilization apparatus, the sterilization apparatus including a fluid chamber, at least one ultraviolet light source, and at least one ultraviolet light sensor, each ultraviolet light source configured to emit ultraviolet light into the fluid chamber, and each ultraviolet light sensor comprising a silicon carbide photodiode, said method including the steps of: flowing a fluid into the chamber of the ultraviolet light sterilization apparatus, irradiating the fluid with ultraviolet light from the at least one ultraviolet light source of the sterilization apparatus, measuring the intensity of the ultraviolet light in the fluid chamber with the ultraviolet light sensor, sensing an output signal from the ultraviolet light sensor with the controller, and adjusting the level of ultraviolet light intensity in the chamber with an output signal from the controller to the light source (see Claim 15).
 - 9. Therefore, it is evident that United States Patent Application No. 09/846,682 (filed on May 2, 2001) claims an invention that was conceived of prior to February 26, 1999 and was diligently reduced to practice during the period from a date prior to February 26, 1999 up until the filing of United States Patent Application No. 09/846,682 on May 2, 2001.
 - are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Declared and signed at Victoria, British Columbia, Canada. September 9, 2003





PAGE 8/19 * RCVD AT 11/12/2003 11:44:28 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/6 * DNIS:8729306 * CSID: * DURATION (mm-ss):08-32



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PAGE 9/19* RCVD AT 11/12/2003 11:44:28 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/6 * DNIS:8729306 * CSID: * DURATION (mm-ss):08-32

Project Details Optics

Goals:

1. ±10% deviation within 60 degree acceptance angle

2. Design optical path for maximum flexibility

Change from Radiance to Irradiance measurements

4. Investigate SiC photodiodes

Resources:

- 2 people 4 months, \$80,000 (1 person additional)

rijin lechnologies inc.

EXHIBIT 4

SiC Benefits

Sensitive only between 200 and 400nm

Same responsivity as existing photodiode

"High radiation hardness"

Available with UVC filter, diffuser, pre-amp

Usable up to 350° C. Varies 3% over 75°

Cost of SiC diode: < \$24 ea.

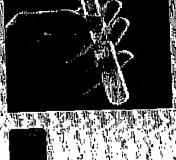
Cost of existing LP diode: \$17

Cost of existing MP diode: \$105



TROJAN SYSTEM



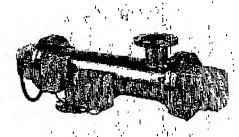


Trojen Technologies Inc.

Ultrapure Water Ultraviolet Systems

PAGE 12/19 * RCVD AT 11/12/2003 11:44:28 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/6 * DNIS:8729306 * CSID: * DURATION (mm-ss):08-3242

DEVOLUTIONARY UV TECHNOLOGY FOR ULTRAPURE WATER



Evolution of UV Light Technology

For over 60 years, ultraviolet (UV) light has been used as a practical and cost-effective method to disinfect many types of liquids.

More recently, UV technology has also been used to destroy residual ozone in the pharmaceutical and beverage industries, where ozone is often utilized to disinfect and oxidize trace organics. Residual ozone is destroyed because it negatively impacts the quality of finished products.

UV lamps emitting light energy in the wavelength regions lower than 220 nm have been found to be effective in reducing total organic carbon (TOC) levels in water and are used extensively in ultrapure water treatment for the semiconductor industry. Reduction of trace organic levels in ultrapure water is critical to product yield and overall water treatment system performance:

Applying UV Energy in Liquid Applications

Specific amounts of UV energy (applied UV dose) are required to effectively destroy microorganisms, break apart TOC compounds or eliminate ozone residuals.

Applied UV dose is measured as the product of UV light intensity times the exposure time within the UV lamp array.

(A) Disinfection

Micro-organisms vary in their sensitivity to UV energy. Lethal doses for various micro-organisms are known and well documented, as shown in the chart below.

Many of these organisms are destroyed with minimal amounts of UV energy (in most cases, less than 20,000 pwatt-s/cm²). All Trojan UV8000 low and medium pressure lamp UV systems are designed to provide UV doses in excess of 30,000 pwatt-s/cm² at the end of lamp life to ensure minimum reductions of 99.9%.

(B) Ozone Destruction

Reduction of residual ozone is accomplished at the UV wavelength of 253.7 nanometers (nm). Ozone, when exposed to UV light, reaches an excited state more rapidly and is consumed to leave only the oxygen molecule dissolved in the water. Effective dissociation of up to 1 part per million (ppm) of residual ozone can be achieved with an applied UV dose of 90,000 pwatt-s/cm².

Ultraviolet Dose Required for 99.9% Inactivation of Various Micro-organisms (µwatt-s/cm²)*

1		_		
Bacteria	ŲΨ	Dose	Virus	UV Dose
		รื่อ รักดีโล	Adenovirus Type 3	7,400 ₽
Bacillus anthració ! ¡		0.000	Bacteriophage	, 10,800 ^{ig} i
Bacillus megatherium (veg.)		3,000,	Consackie AZ	9,500]
Bacillus megatherium (spore)	, I	[8,7UV] ₁	Henatitis A	21,900
Bacillus subtilis (mixed veg. & spore)	٠,٠	18,300 H		± 10.800
Clostridium tetani	٠ij	86,000	Influenza virus	97500 h
Corynebacterium diptherlae	1.7	[ap.208];-	Policytrus	1.28.5001
Eberthella Dyphosa	` :J	16,300 g	Rotavirus	77n.000
Escherichia Coll.		[] 9,600 (I	Tobaco Mosaic virus	113 711
Leptospira	Li'	10,200		
Microsoccus candidus	i ju)1B,000		
Microspecus radiodurans	. ''	61,500	Yeast	1. 15-2 PG-6Mi
Microsoccus aphaeroides	١,	130,000	Baker's yeast	4 1 2000
Mycobacterium tuberculosis	, I	17:400	Brewer's yeast	
Naisseria catartitalis	ļ	13.200	Common yeast Cake	1, 3,386
	٠.,	13.200	Saccharomyces cerevisiae	21,900; 1 21,200; 1
Phytomonas tumelaciens .	ا	7.800 D	Saccharomyces ellipsoides	21,900
Projeus vulgaris	٠: '	116 500	Saccharomyces Sp.	[29,100]
Pseudomonas aerugenosa	1	10 500		
Pseudomonas flourescans		1200		
Salmonella !!	. 1.	1.12000	Mould Spores	and the second of the second o
Salmonella enteritidis	ļ. '	12,000	Aspergillus flavus	171,000
Salmonella paratyphi	1;	9,000	Aspergillus glaucus	198,000
Salmonella typhi	•	0.300	Aspergillus niger	468,000
Sarcina lutea	-1	יי עטר פֿפין	Oospora Lacifs	17,900
Serrotta marcescens	1.	7.200	Panicillium digitatum	138,000
Shippella dysenteriza	'	6,800 6	Seviciliatu exbavanu Seviciliatu alikusum	39,000
Stringelta flexneri	:1 .	5,100	Sevicillinu todnetota	43 600
Stitgella paradysenterias	•	7 : 5500 h	Seliciming radiosoca	1° . 3. mm-ar-
Califfron arbeitm		13,200		
Staphiococcus albus		9,900	a 1	
Staphlococcus aureus	1	15,000	Protoz¢a	347700
Streptnococcus hamolyricus	٠	16,600	Chlorella Vulgaris	147.000
Streptococcus lactis	•	1,18,600),	Mecuatode alids	315,000
	!	6,600	Paramecium	्रा । श्रह्मानार व्यवस्
Streptococcus pyopenes Streptococcus vindans	•	6,000		
	1	7 200 1		
Vipuo comma	1	用作品运输 】		

This table indicates the dose (microwah secontainguan centimetre) of UV required for a 3 log reduction of various microbes. The doses have been estudiated from 1 log reduction values obtained from cavaral sources as reported by various authors. Any variations in the UV doses displayed been estudiated from 1 log reduction values obtained from cavaral sources are reported by various authors. Any variations in the UV doses displayed to the contract of the contr

(C) TOC Reduction

Total organic carbon (TOC) reduction with UV energy is more complex than inactivation of microbes or destruction of residual ozone. There are different mechanisms at work, dependent on the type of UV lamp used.

Where 185 nm low pressure UV lamp systems are used, the working mechanism is the direct photolysis of water. This process creates powerful hydroxyl (OHT) radicals that attack organic compounds and break them into acid-based groups which can readily be absorbed by ion exchange systems. If complete oxidation occurs, CO₂ and H₂O are the final products. This mechanism functions in a thin water layer due to the poor transmission of short wavelengths in water.

Where broad spectrum medium pressure UV lamp systems are used, two mechanisms are at work. The lower wavelength emissions (below 220 nm), create hydroxyl radicals. Direct

photolysis of the organic contaminants also occurs as a result of the longer wavelengths emitted by the medium pressure UV lamp. These longer wavelengths can be effective for organic compounds that have a UV absorption maximum higher than 22D nm. Since longer wavelengths are more readily transmitted, this second mechanism will function well at distances from the lamp which are greater than those used for the direct photolysis of water. In this regard, the medium pressure lamp is often considered to be a better choice for this unit operation in a high purity water application.

Generally, high applied UV doses are required to break apart organic bonds. UV doses start as low as 90,000 µwatt-s/cm² and can exceed 300,000 µwatt-s/cm² depending on the type and level of organic to be treated. In order to assess your requirements, contact Trojan for assistance in designing the appropriate UV system for your TOC reduction application.



Trojan: The Company and its UV Technology Philosophy

Trojan Technologies Inc. has worked diligently to provide sound LIV technology to our valued customers for over 20 years. Industries have trusted our designs for quality, reliability and consistent performance. Our fully equipped research facilities, complete with microbiological and chemical laboratories, have developed scientifically based UV

technology solutions which exceed today's requirements and discover tomorrow's opportunities.

Our engineering staff create the most cost-effective designs through sound engineering practices, based on scientific research and high-quality standards.

To complement our research and

engineering activities, Trojan's sales and marketing team provides consistent customer contact and after-sales service second to none. Our three strategic warehouse and office locations, along with a committed distributor network provide afficient and timely service to a growing global market. Replacement parts and technical services are only a telephone call away.

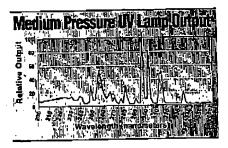
Your UV needs are our first priority.

UV Lamps

All Trojan UV lamps are manufactured and quality inspected to our engineered specifications. Trojan specifies to its lamp suppliers the materials, dimensions, electrical and UV output qualities that are acceptable for use in its UV systems.



Trojan low pressure UV lamps have output peaks at either 253.7 nm for disInfection and ozone destruction capabilities or 185 nm for the reduction of TOC in high purity waters. Trojan medium pressure UV lamps emit a broad spectral output, in the range of 200-400 nm, with peaks of energy fine-tuned for maximum output efficiency so that disinfection, ozone destruction and TOC reduction can be obtained with one lamp.



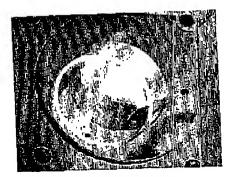
All Trojan UV lamps have uniquely designed, single ended electrical connections complete with a dielectric barrier between pins to ensure a high degree of electrical integrity and safety.

The single ended lamp design allows many Trojan UV systems to be serviced from one end of the installed vessel, at working height. Eliminating half the electrical and water sealing connections reduces the required maintenance time compared to most other manufactured UV systems.

TROJAN SYSTEM IN COLO

Quartz Sleeves

All UV lamps in Trojan systems are protected by fused quartz sleeves, designed to allow maximum emission (greater than 95%) of the available UV energy from the lamps.

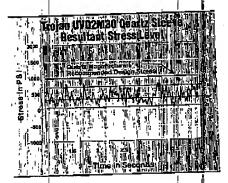


UV8000™ strain tested quartz sleeve

Trojan medium pressure UV lamp systems utilize strain tested quartz sleeves, available in natural or ozone free materials. Natural quartz materials are used in non-critical areas of the ultrapure water system. Ozone free quartz is used in critical disinfection locations such as semiconductor

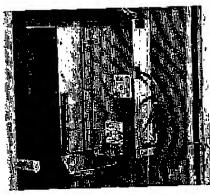
polish loops to prevent the oxidation wavelengths from passing into the ultrapure water. The use of ozone free quartz in these critical areas reduces the potential for oxidation of trace organics present, which ensures the resistivity of the water does not fall below acceptable values.

The strain testing, conducted by an independent testing laboratory, has concluded that the quartz sleeve materials used in Trojan medium pressure lamp UV8000 systems possess a high degree of strength: Our designs can tolerate higher flowrates without the threat of breakage due to hydraulic stresses imparted by flow patterns into and through our medium pressure UV systems.



Power Supplies

In maintaining our commitment to developing leading edge UV technologies, Trojan scientists and engineers have developed more efficient electronic power supplies. These electronic



Space-seving, efficient System UV8000™ variable input electronic ballast

ballasts provide stable UV lamp Input power resulting in elevated levels of UV energy from the lamps within our low pressure lamp UV8000 systems. Trojan systems provide higher applied UV doses when compared to other similar sized systems in the marker. Use of such highly efficient electronic ballasts also reduces requirements for cooling in control panels.

Trojan has also pioneered the development of a notebook computer sized electronic power supply for its medium pressure lamp UV8000 systems. Cumbersome panels and heavy, butdated transformer/capacitor technology are replaced by a furly variable input, high frequency power supply found only in Trojan medium pressure lamp UV8000 systems. A significant advancement in this electronic power supply is its ability to automatically increase or decrease the UV output from the lamp according to conditions of lamp age or flow, in any specific application.

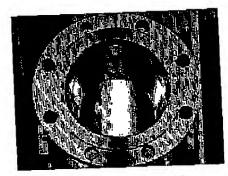
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TDO IANI SYSTEM IN BOOCE

UV Reactor Chambers

UV8000 reactors are full penetration welded using 3161 stainless steel. Welding is followed by picking, passivation, mechanical and electropolishing processes to ensure internally smooth micro-inched, sanitary finishes. After final assembly, all UV8000 systems are integrity chacked and hydrostatically tested.

Clean room manufacturing facilities ensure the quality of these UV products from our plant to your door.



316L reactor chamber finished to 15 Ra.

Control Panels & Electronic Circuitry

Trojan's understanding of installation limitations has led to flexibility in system designs. All UV8000 system control panels are mountable in remote locations and possess the latest in electronic circuitry and monitoring features. All panels come with a lockable front door, operator interface display, and electrical disconnect switch. The electrical systems are designed to UL standards and conform to CE directives.

On all low pressure lamp UV8000 systems, local, standard displays allow the operator to visibly view lamp operational status, total etapsed operating time and an optional UV intensity measurement at the system panel.

UV8000 medium pressure UV lamp systems are furnished with a microprocessor based control system. The microprocessor can be configured to provide specific control functions which permits the operation of the unit under such defined conditions as flowrate and UV dose delivery requirements, individual units can also be tied to a central control system which can remotely monitor the UV system for status updates, alarm indication and redundant equipment availability.

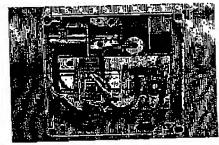
These standard features ensure the integrity required for reliable operation of your UV8000 system. Remote indication of alarm conditions can be obtained from a set of dry contacts on the circuitry of the UV8000 systems.

UV Intensity Monitoring

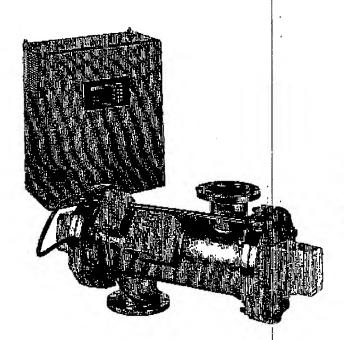
All Trojan low pressure lamp UV8000 systems can be equipped with a discrete UV intensity monitoring system which measures only UV energy emissions. The percent relative intensity is displayed on the control panel. All UV intensity and low UV alarm set-points are pre-set at the factory to provide proper Indication of UV output during UV system operation and an alarm for times when Inadequate levels of UV energy are being detected.

Medium pressure UV lamps emit the equivalent UV energy level of up to 16 low pressure UV lamps. As a result, UV intensity sensors must, from time to time, be recalibrated or replaced. In order to increase the life of the intensity sensor, Trojan has designed its sensor to obtain full UV intensity readings through a mechanical shutter

on a timed exposure basis. The frequency of the shutter activation is configured into the system controls when the medium pressure LIV8000 system is installed. All UV8000 systems have a 4-20 mA signal for continuous remote monitoring of the relative UV intensity.



Medium pressure UV Intensity monitor





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Trojan Model No.	i	Number of P	Disimection* Flowrate	L Begundings y
8002S	li		25 GPM	
8004S	1!		50 GPM	
8006S	· <u>.</u> !		85 GPM	11. 221 Sale 4 Li
80085	11		120 GPM	PURT GRAVE IN
8008L		AF LIMITED FEITHER	240 GPM	F3 (896PA20 B)
8012L	1		360 GPM	Will 20saw 24
8016L			480 GPM	3 Marian Gray
B024L	Ť.	2411	720 GPM	1 240 ap wall 1
8032L	1		960 GPM	120 E

UV8000 Medium Pressure UV Lamp Systems

Trojan Model No.	Disinfection* Flowrate	DESCRIPTION OF THE PROPERTY OF
UV01M20	500 GPM	HE GRANT!
UV01M30	1000 GPM	# 1 3 3 5 6 1 2 6
UV02M30	2000 GPM	

Based on a minimum UV transmission of 98% and a UV dose of 30,000 microwan

seconds/square centimetre being delivered at the end of tamp life (appointment). "Based on a minimum UV transmission of 96% and a UV dose of 90,000 interovations seconds/square centimetre being delivered at the end of lamp life (5,000 hours).
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5,006,244 4,872,980 1,163,086 1,327,877

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Trojan ... the brightest ideas in UV technology



Trojan Technologies Inc.

Based on a minimum UV transmission of 95% and a UV dose of 30,000 microwald seconds/square centimetre being delivered at the end of lamp life (8,760 hours).

*Based on a minimum UV transmission of 96% and a UV dose of 90,000 microwant seconds/square candinatre being delivered at the end of lamp life (8,760 hours).

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Internet: http://www.trojanuv.com

Head Office: 3020 Gore Road, London, Ontario, Canada N5V 4T7 Tel: (519) 457-3400 Fax: (519) 457-3030 Internet Canada Office: Laan van Vredestein, 160, 2666 DZ, The Hague, Netherlands Tel: 311-70-391-3020 Fax: 31-70-391-3330 California Office: 690 E. Tebor Ave., Suite I, Fairfield, CA, USA 94533-4006 Tel: (707) 425-1839 Fax: (707) 426-3599

Calibrated Trojan/OES Sensors

	•					,	
				A	Notes	ocation	
1		Water Thirtmaks Sansor Output lamperaure	Sensor Output	amberame		A ministra	,
Kumber	and A	Traco Inches		,	1N 8000	Actualities, Econocii.	
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3					Sant back to CES for Jepail.		
209	LP.				Sent back to OES for repair.	Pilot Lab.	
510	₩.P.	11.9 cm	19.6 mA				
,							

Low. Pressure High Output Low Pressure

Medlum Pressure

The water thickness for the thickness of the water layer batween the lamp and the sensor

